SOIL SURVEY IN CATALONIA, SPAIN: STFPS TOWARD A NATIONAL COOPERATIVE FEFORT

CATALONIA, SPAIN

FRANCE

PHYSIOGRAPHY

Pyrenees mountains

Inter-mountains and coastal ranges

Ebro basin

Area:

- 3.210.667 ha
- 7.930.372 acres

Population:

- 7 million people

MEDITERRAIN OCEAN

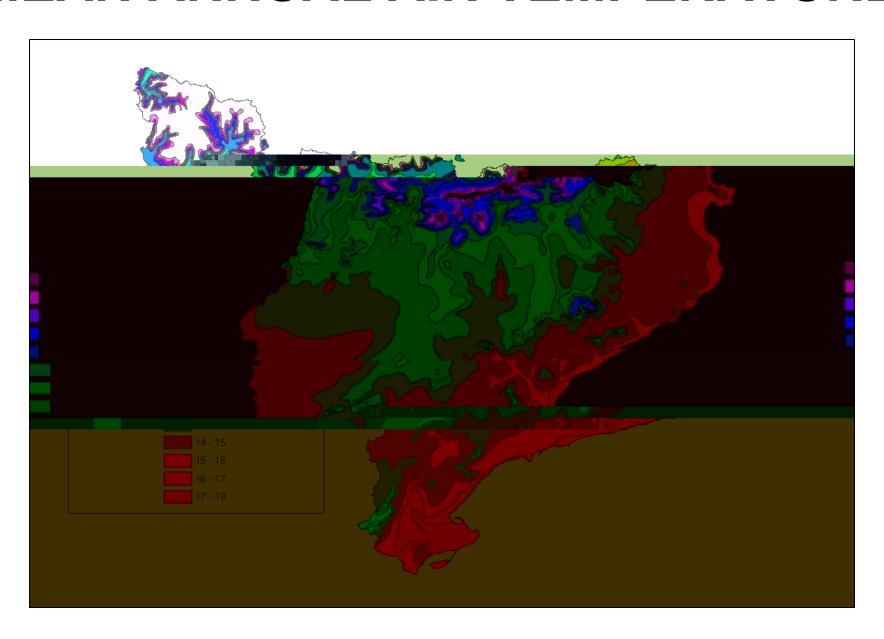
Land Use:

- Forestry: 60%
- Agriculture: 29%
- **Urban: 6%**
- Miscellaneous: 5%

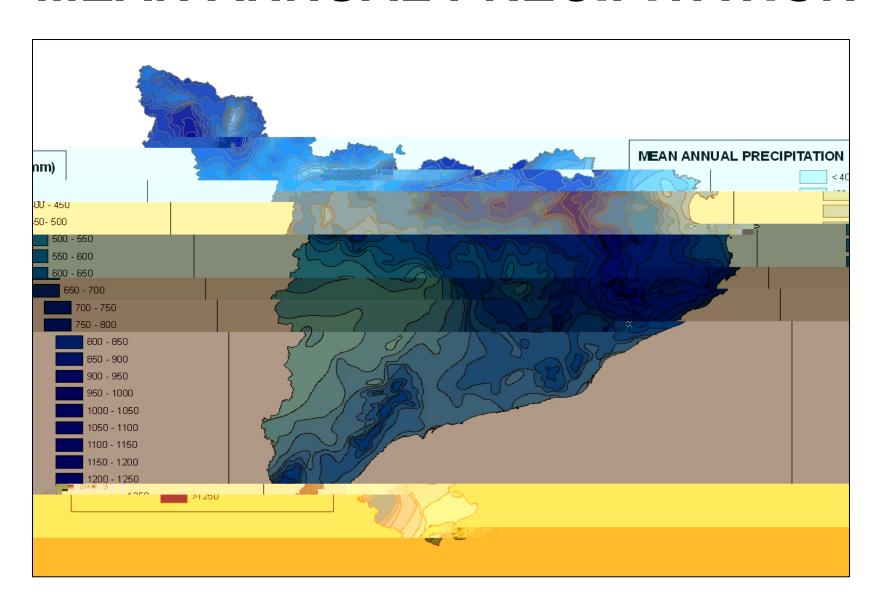
CLIMATE

- Dry Mediterranean
 - Hot Summers
 - Mild Winters

MEAN ANNUAL AIR TEMPERATURE



MEAN ANNUAL PRECIPITATION



COOPERATIVE EFFORT



- -IGC
- -ICC
- -University of Lleida
- -Dpt. of Agriculture

PROJECT OBJECTIVES

- Soil Mapping of Catalonia
 - 1:25,000
 - 1:250,000
- Soil Database Development (attributes dataset)
 - Threats to Soil soil erosion, salinitation, desertification, decline in organic matter, sealing, compaction, soil protection, etc.
- Soil Information System (spatial dataset)

Methodology

- Soil Survey Manual
- National Soil Survey Handbook
- Soil Classification
 - Soil Taxonomy
 - WRB
- Laboratory Analyses
 - Spanish official system

ORDER 2 MAPPING

SCALE 1:25.000

304 maps

PRIORITY AREAS

MAPPING APPROACH

IGC staff

- -SS Quality Assurance
- -Map Finishing

External Consultants

- -Soil mapping
- -SS Quality Control
- -Database development

SOIL MAP REPORT: MANUSCRIPT

- MAIN REPORT

- INTRODUCTION
- HOW TO USE THIS SOIL MAP
- DESCRIPTION ON THE STUDY AREA
- THE SOILS: LEGEND AND MAP UNITS
- SOIL PROPERTIES AND CHARACTERISTICS
- SOIL FORMATION
- SOIL CLASSIFICATION

- ANNEXES TO THE MAIN REPORT

- METHODOLOGY
- CRITERIA FOR SOIL SURVEY DESCRIPTION
- DESCRIPTION OF THE SOIL SERIES
- CHEMICAL ANALYSES
- HYDROLOGICAL CHARACTERIZATION
- PROFILES FORMS

SOIL MAP



POLITICAL DIVISIONS

41 maps

INTERNET ACCESS

GENERAL SOIL MAP

- Scale at 1:250.000
- Linked to the standards of the European Union (EU 1:250.000 project)

CHALLENGES & OPPORTUNITIES

- Soil moisture regimes
- Antropogenic soils





Bench Terraces

NEXT STEPS

- HOW TO MAKE AVAILABLE SOIL INFORMATION
 - GENERAL PUBLIC
 - OTHER POTENTIAL USERS
- ENGAGEMENT OF OTHER ORGANIZATIONS TO FORM A NATIONAL COOPERATIVE SOIL SURVEY PROGRAM

